



INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

ADVERTISEMENT NO: R&D/1227/MQR/612

DATED: 16.07.2026

Project No: R&D/SP/PHY/MQR/2024-25/1227

Applications are invited in the prescribed format only for the following assignment in a purely time bound research project undertaken in this institute.

1. (a) Name of the temporary assignment : Research Associate (RA)
(b) Number of Post 01
(c) Duration of the Post : Initially one year (may be extendable based on satisfactory performance)
2. Name of the temporary research project : A multimode quantum repeater network for entanglement distribution based quantum communication.
3. Name of the sponsoring Agency : National Quantum Mission, DST, Technology Bhawan, New Mehrauli road, New Delhi 110016
4. Qualifications & Areas of Experience : PhD in Physics/Engineering & Cold atoms Physics/Quantum Optics/Electromagnetically Induced Transparency (EIT) (All Experimental)
5. Consolidated Fellowship/Salary for RA1/RA2/RA3 : Pay of Rs. 58,000/ Rs. 61000/Rs. 67000 - per month + HRA as per norms, will be fixed based on the years of research experience post Ph.D as Post Doc/Scientist/RA or equivalent in reputed research labs in India or abroad.

The Quantum Optics Experiment Lab is at the forefront of research in **slow light phenomena using atomic media**, including alkali vapors and ultracold atoms. As a key participant in India's prestigious **National Quantum Mission (NQM)**, the lab is undertaking an ambitious project to develop a **multi-node quantum repeater network**. This initiative is crucial for advancing entanglement distribution-based quantum communication, aiming to lay the foundation for next-generation secure communication technologies.

The selected Research Associate will have the unique opportunity to contribute to this national mission, collaborate with leading institutions, and gain hands-on experience in state-of-the-art quantum optics and atomic physics experiments. Candidates passionate about experimental physics and eager to work on transformative quantum technologies are strongly encouraged to apply.

The candidate should have a PhD degree with very good academic performance throughout the career. Candidate with a fresh Ph.D will be considered for RA1 position and candidates with more than 1 year research experience in reputed research labs may be considered for RA2/RA3 based on the



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number of year's of research experience and publications by the selection committee in the

advertised research area after interview. The upper age limit for applying for the Research Associate position shall be 35 years. Relaxations for SC/ST/OBC/women/PD will be given as per the GOI rules. Working/research experience in the field of Experimental Cold Atom Physics/ Quantum Optics/ Electromagnetically Induced Transparency (EIT) in atomic alkali gas and Light-matter experiment will be given preference. The Ph.D and research experience must have experimental work in the above areas and must match the requirements of the NQM project.

Last date for receiving applications : 15/08/2026

Application form (see pages below 3&4) should be duly filled in this format strictly and must be sent along with soft copy of certificates and post Ph. D research experiences by e-mail to raghavanke@iitp.ac.in on or before 15/08/2026

Only those candidates who are eligible as per the research area and requirements of the NQM project advertised will get shortlisted and intimated through E-mail through a call letter. Shortlisted candidates would be called for an interview (Online/offline) should appear with updated resume along with the original copies of all supporting documents (certificates, mark-sheets, and degrees). No TA/DA is admissible for appearing in the interview.

For any query contact Investigator(s) : **Dr. Raghavan K Easwaran, Dept. of Physics, IIT Patna, Emails: raghavanke@iitp.ac.in** Tel.: 0612-3028029.

Assistant Registrar (R&D)

Copy to:

1. Associate Dean, R&D, IIT Patna
2. Advertisement file
3. Project file



Form No: RD-M003

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RESEARCH & DEVELOPMENT UNIT
PROJECT CODE: R&D/SP/PHY/MQR/2024-25/1227

ADVERTISEMENT NO: R&D/1227/MQR/612**DATED: 16.07.2026****FORMAT OF APPLICATION FOR 'RESEARCH ASSOCIATE'**

Name & Address Including email id and Phone no. (for Correspondence)	Category (GEN/OBC/SC/S T/PD)	DOB dd/ mm/yy	Professional Exam. (GATE/CSIR-NET, etc) & Validity
NAME IN CAPITAL Address: Phone: Email:			
Educational Qualification			
Institute/ Board	Exam Passed	Year of Passing	% of Marks/CPI
	10 th Class		
	12 th Class		
	Bachelors (B.Sc/B.Tech/B.E./BCA) or equivalent		
	Masters (M.Sc/M.Tech/M.E/MCA/ MA) or equivalent		
	Ph.D (research area)		

Qualifying degree	Degree/ major/Specialization
(B.Sc/B. Tech/B.E./BCA)	
(M.Sc/M.Tech/M.E/MA/MCA)	
(Others)	



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Details on Ph.D work with research area and work in brief and justifying how your Ph.D research experience will contribute towards NQM project in a paragraph:

Research Experiences in detail after post Ph.D and number of years (Highlighting the research area and work in brief and justifying how your research experience will contribute towards NQM project in a paragraph):

Date:

Place:

Signature of applicant